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APPLICATION NO.	FIL	JNG DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/722,923	11/27/2000		Terence Leong	P5635	4941
959	7590	10/12/2004		EXAMINER	
LAHIVE & 28 STATE ST		ELD, LLP.	LUDWIG, MATTHEW J		
BOSTON, M)	ART UNIT	PAPER NUMBER	
				2178	

DATE MAILED: 10/12/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	1				
		09/722,923	LEONG ET AL.	U				
	Office Action Summary	Examiner	Art Unit					
		Matthew J. Ludwig	2178					
**	The MAILING DATE of this communic			s				
Period for	or Reply			٠				
THE - Exte after - If the - If NO - Faile Any	ORTENED STATUTORY PERIOD FO MAILING DATE OF THIS COMMUNIC ensions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this communic period for reply specified above is less than thirty (30) or period for reply is specified above, the maximum stature to reply within the set or extended period for reply wireply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	CATION. 37 CFR 1.136(a). In no event, however, may a nication. days, a reply within the statutory minimum of thi atory period will apply and will expire SIX (6) MOI ill, by statute, cause the application to become A	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this commur BANDONED (35 U.S.C. § 133).	nication.				
Status		•						
1)🖂	Responsive to communication(s) filed	on <u>27 November 2000</u> .						
2a)□	This action is FINAL . 2t	o)⊠ This action is non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
5) <u>□</u> 6)⊠	Claim(s) <u>1-59</u> is/are pending in the ap 4a) Of the above claim(s) is/are Claim(s) is/are allowed. Claim(s) <u>1-10,13-27,30-44 and 47-59</u> Claim(s) <u>11,12,28,29,45 and 46</u> is/are Claim(s) are subject to restricti	e withdrawn from consideration. is/are rejected. e objected to.						
Applicat	ion Papers							
9)[The specification is objected to by the	Examiner.						
	The drawing(s) filed on is/are:		by the Examiner.					
	Applicant may not request that any object	ion to the drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).					
11)	Replacement drawing sheet(s) including to The oath or declaration is objected to		• • • •					
Priority	under 35 U.S.C. § 119	• •		•				
a)		ocuments have been received. ocuments have been received in A f the priority documents have beer al Bureau (PCT Rule 17.2(a)).	Application No n received in this National Stag	je				
Attachmer	nt(s)							
1) Notice 2) Notice 3) Infor	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PT mation Disclosure Statement(s) (PTO-1449 or P er No(s)/Mail Date 9/30/04.	O-948) Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTO-152))				

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DETAILED ACTION

- 1. This action is responsive to communications: application filed 11/27/00.
- 2. Claims 1-59 are pending in the case. Claims 1, 9, 18, 26, 35, 43, and 52, are independent claims.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-10, 13-27, 30-44, and 47-59, are rejected under 35 U.S.C. 103(a) as being unpatentable over G.M. Bierman 'Using XML as an Object Interchange Format', University of Warwick, May 17, 2000.

In reference to independent claim 1, Bierman teaches:

The paper discloses a means for utilizing XML as an object interchange format. We define a new XML document type, OIFML, and show how it can be used to specify ODMG-objects. Furthermore, the reference discloses when specifying an object, an arbitrary subset of its attributes can be initialized explicitly (compare to "receiving at least one structured document representing an instance of an object including attributes and attribute values defined for a class"). See Bierman, pages 1-4. The reference provides the suggestion of utilizing an object database and although the reference does not explicitly state the database is capable of storing multiple structured documents representing multiple objects, however, the word 'capable of', fails to proficiently describe weather or not the database is storing multiple structured documents

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representing multiple object. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the object database and provide storage of multiple structured XML documents because the markup language is supported by a large number of tools and it would have given the author the added benefit of utilizing XML in the proficient interchange of object databases.

In reference to dependent claim 2, Bierman teaches:

The reference provides a standard for the persistence of object oriented programming language objects in databases, which consists of an object model, object specification languages, object query languages, and programming language bindings (currently for Java, C++, and Smalltalk. See Bierman, page 1.

In reference to dependent claim 3, bierman teaches:

It is often the case that several objects are to be initialized with the same set of attributes values. A tag shared value object is provided for this purpose. See Bierman, page 4.

In reference to dependent claim 4, Bierman teaches:

The paper discloses a means for utilizing XML as an object interchange format. We define a new XML document type, OIFML, and show how it can be used to specify ODMG-objects. Furthermore, the reference discloses when specifying an object, an arbitrary subset of its attributes can be initialized explicitly. See Bierman, pages 1-4.

In reference to dependent claim 5, Bierman teaches:

The reference also allows for relationship with cardinality "many". Bierman uses the same relationship tag as earlier, but provides a new tag links. See Bierman, page 11.

In reference to dependent claim 6 and 7, Bierman teaches:

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The reference teaches the utilization of XML as a standard defining means for the interchange of object databases. See Bierman, page-12.

In reference to dependent claim 8, Bierman teaches:

The utilization of specific classes within the object-oriented database for use with XML structured documents. See Bierman, page 7.

In reference to dependent claim 9 and 10, Bierman teaches:

The utilization of specific classes within the object-oriented database for use with XML structured documents. The reference provides an instance of at least one object including attributes and attribute values defined for a class. See Bierman, page 7.

In reference to dependent claim 13, Bierman teaches:

The paper discloses a means for utilizing XML as an object interchange format. We define a new XML document type, OIFML, and show how it can be used to specify ODMG-objects. Furthermore, the reference discloses when specifying an object, an arbitrary subset of its attributes can be initialized explicitly. See Bierman, pages 1-4

In reference to dependent claim 14, Bierman teaches:

The reference also allows for relationship with cardinality "many". Bierman uses the same relationship tag as earlier, but provides a new tag links. See Bierman, page 11.

In reference to dependent claims 15 and 16, Bierman teaches:

The reference teaches the utilization of XML as a standard defining means for the interchange of object databases. See Bierman, page 12.

In reference to dependent claim 17, Bierman teaches:

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The utilization of specific classes within the object-oriented database for use with XML structured documents. See Bierman, page 7.

In reference to claims 18-27, 30-34, the claims reflect the system comprising instructions used for performing the methods as claimed in claims 1-10, 13-17, respectively, and therefore are rejected under similar rationale.

In reference to claims 35-44, 47-51, the claims reflect the article of manufacture comprising instructions used for performing the methods as claimed in claims 1-10, 13-17, respectively, and therefore are rejected under similar rationale.

In reference to claims 52-59, the claims recite similar limitations to those of claims 1-8, and therefore are rejected under similar rationale.

Allowable Subject Matter

Claims 11, 12, 28, 29, 45, and 46, are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Sundaresan USPN 6,569,207 filed (10/05/1998)

Fong et al., USPN 6,678,867 filed (07/06/2001)

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matthew J. Ludwig whose telephone number is 703-305-8043. The examiner can normally be reached on 8:00am-5:00pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Hong can be reached on 703-308-5465. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ML

September 30, 2004

STEPHEN S. HONG PRIMARY EXAMINER